

# GMG SupportNews

**English edition 14/2016**

**June 14, 2016**

**Dear Sir or Madam,**

Today we would like to inform you of the following topics:

## **Release of GMG OpenColor 2.0.5.13**

- Version notes
- New features
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## **Release of GMG OpenColor 2.0.5**

### **Release date**

GMG OpenColor 2.0.5.13 has been released for use with 32bit and 64bit operating systems today, Tuesday, June 14, 2016.

### **Recommendation**

We recommend that all users of GMG OpenColor upgrade to OpenColor 2.0.5.

### **License**

OpenColor 1.x → OpenColor 2.0.5    New license required, chargeable  
OpenColor 2.0 → OpenColor 2.0.5    No new license required

### **Supported OS**

- Windows 10
- Windows 8.1
- Windows 8
- Windows 7
- Windows Server 2012 R2
- Windows Server 2008 R2

### **OpenColor Editions & Licensing**

- Standard Edition: Allows the connection to one ColorProof system
- Plus Edition: Allows the connection to multiple ColorProof systems (previous: Enterprise Edition)

### **ColorProof Licensing**

A GMG OpenColor 2.0 Output License is required for each GMG ColorProof instance to be able to process GMG OpenColor profiles.

- GMG DotProof/FlexoProof 5.8 or higher is required for processing GMG OpenColor DotProof profiles (MXD).
- GMG ColorProof 5.6 or higher is required for processing GMG OpenColor contone profiles (MXN).

### **Download**

[OpenColor 2.0.5](#)

## Installation instructions

1. Close all GMG applications.
2. Extract the zip archive and run the installation.

The installation instructions are valid for new and update installations. Before updating to a new OpenColor version you can backup the folder containing all configuration data  
*C:\ProgramData\GMG\GMGOpenColor\DatabaseV2* to a new location.

## New features

### OpenColor DotProof – Chargeable module

The module OpenColor DotProof allows to calculate high quality DotProof profiles based on spectral data. The calculation takes screening settings and RIP compensation curves in to account, in order to exactly simulate the overprinting spot color behaviour in 1bit jobs. OpenColor DotProof profiles (MXD) can be used in GMG DotProof 5.8 and GMG FlexoProof 5.8. Dynamic profiling is not supported for OpenColor DotProof.

### Licensing

The following licenses are required  
for OpenColor DotProof:

- GMG OpenColor 2.0
- Module OpenColor DotProof

for Proofing:

- GMG DotProof 5.8 or FlexoProof 5.8
- GMG OpenColor 2.0 Output license

### DotProof: Supported Printer-media combinations

OpenColor DotProof is available for the following printer-media combinations.

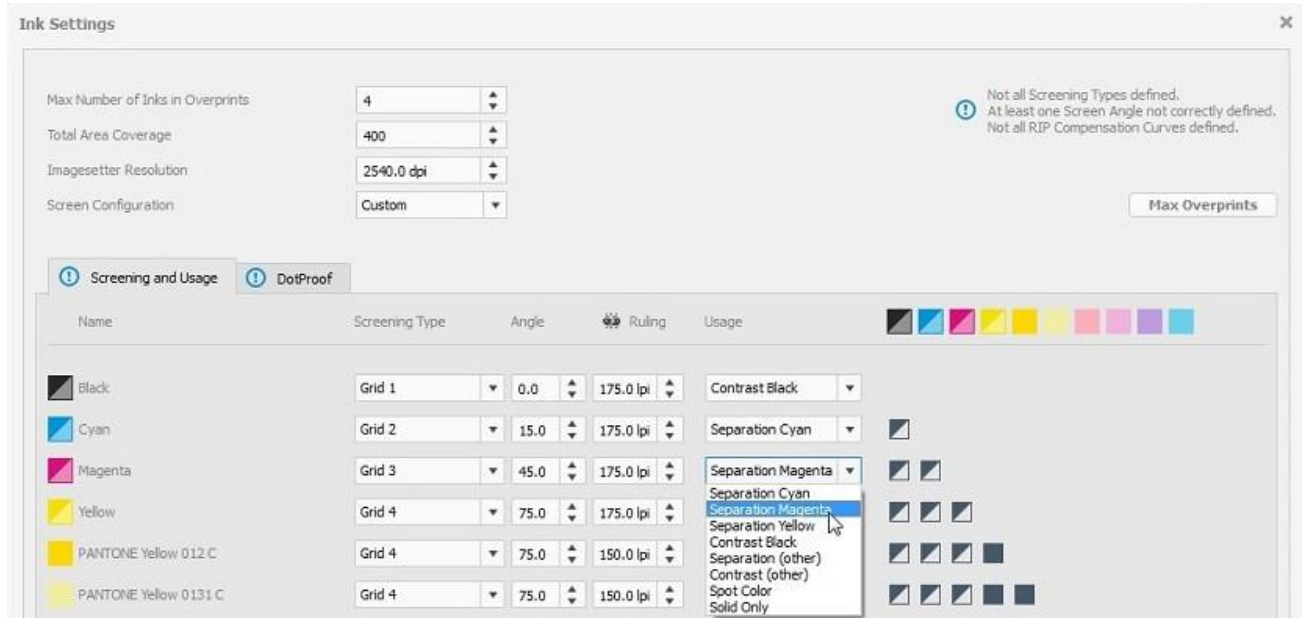
| Printer model  | Media   | Print mode                                    |
|--|---|---|
| Epson SureColor P7000 V<br>Epson SureColor P9000 V   | GMG ProofPaper semimatte 250<br>GMG ProofPaper semimatte light<br>GMG ProofPaper Gloss 250<br><i>GMG ProofPaper semimatte 250 OBA - Planned</i>   |   |
| Epson Stylus Pro 4900<br>Epson Stylus Pro 7900<br>Epson Stylus Pro 9900                              | GMG ProofPaper semimatte 250<br>GMG ProofPaper semimatte light<br>GMG ProofPaper Gloss 250<br><i>GMG ProofPaper semimatte 250 OBA - Planned</i>   | GMG Driver - 10c - Photo Black - 720x1440 dpi |
| <i>Epson SureColor P7000 STD (LLK) - Planned</i><br><i>Epson SureColor P9000 STD (LLK) - Planned</i> | <i>GMG ProofPaper semimatte 250 - Planned</i><br><i>GMG ProofPaper semimatte light - Planned</i><br><i>GMG ProofPaper Gloss 250- Planned</i><br><i>GMG ProofPaper semimatte 250 OBA - Planned</i> |   |

## Ink settings – Screening and Usage

For a correct DotProof calculation, the ink settings must be accurate. This includes the screening information: imagesetter resolution, grid, angle and ruling, as well as the ink usage.

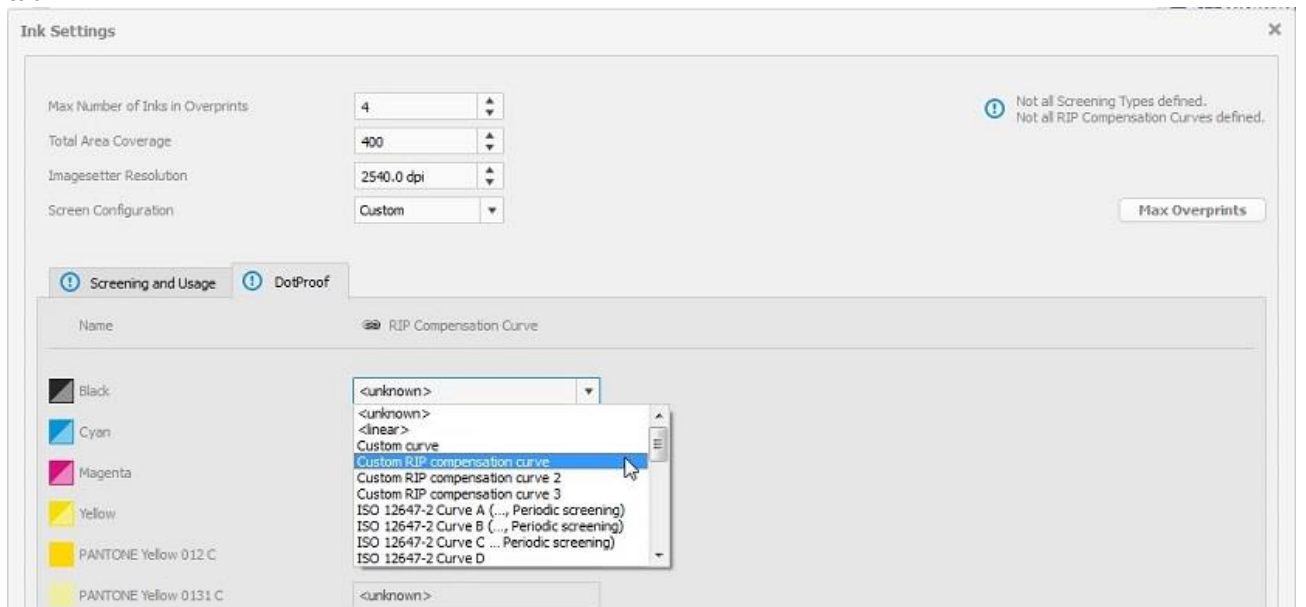
Some notes about the ink usage:

- *Separation (other)* → for an additional process color, a replacement for a process color or for overprinting spot colors
- *Contrast (other)* → for inks which are a replacement for black, e.g. brown
- *Spot color* → for non-overprinting spot colors
- *Solid only* → for 100% solid spot colors



## RIP compensation curve

RIP compensation curves can be saved in the database as gradation curve and loaded on the *DotProof* tab.



## Profile iteration

We recommend to iterate OpenColor DotProof profiles. See Tips & Tricks for more details.



For each profile a custom single page test chart will be generated for the iteration. Please note that iteration charts calculated by the OpenColor test chart generator are different for each profile and cannot be used as a general test chart, like e.g. ECI 2002.

The screenshot shows the OpenColor software interface. On the left, there is a 'Measuring Device' dropdown set to 'X-Rite i10 Pro 2' and a test chart image. Below the chart are 'Save Chart' and 'Save Template' buttons. On the right, a table displays iteration results:

| Iteration                           | Calculated | Current Values         | Avg ΔE | Max ΔE | In-gamut Avg ΔE | In-gamut Max ΔE | Actions |
|-------------------------------------|------------|------------------------|--------|--------|-----------------|-----------------|---------|
| <input type="checkbox"/>            | 1          | 13.06.2016 11:19:49 v5 | 3.1    | 10.7   | 3.0             | 10.7            | [Icons] |
| <input type="checkbox"/>            | 2          | 13.06.2016 13:18:00 v5 | 1.5    | 8.6    | 1.3             | 6.5             | [Icons] |
| <input checked="" type="checkbox"/> | 3          | 13.06.2016 13:34:43 v5 | 0.9    | 3.7    | 0.8             | 3.6             | [Icons] |

Detailed statistic

|                 | Lab            | Current Lab    | ΔE  | In-gamut ΔE |
|-----------------|----------------|----------------|-----|-------------|
| 0 100 85 0 100  | 42.4 73.5 41.2 | 47.7 69.3 42.4 | 6.8 | 1.0         |
| 0 100 70 0 100  | 42.7 73.8 37.3 | 48.2 70.0 38.3 | 6.7 | 1.0         |
| 0 100 100 0 100 | 42.1 73.3 45.2 | 47.1 69.1 45.2 | 6.6 | 0.3         |
| 0 100 50 0 100  | 43.1 74.5 31.6 | 48.4 70.8 31.3 | 6.4 | 0.3         |
| 0 100 10 0 100  | 43.8 76.4 21.0 | 49.0 73.0 19.5 | 6.4 | 1.0         |
| 0 85 70 0 100   | 43.2 73.7 36.5 | 48.4 70.0 37.0 | 6.4 | 0.6         |
| 0 85 85 0 100   | 43.0 73.4 40.8 | 47.8 69.5 42.1 | 6.3 | 1.1         |
| 0 100 0 0 100   | 44.0 77.0 18.8 | 49.0 73.6 17.5 | 6.2 | 0.7         |
| 0 85 100 0 100  | 42.7 73.2 45.3 | 47.2 69.3 45.0 | 5.9 | 0.6         |

#### Steps:

1. Save chart as PDF.
2. Rip the chart in your 1bit creator.
3. Export your MXD profile out of OpenColor.
4. Print the test chart (1bit files) in DotProof 5.8/FlexoProof 5.8 with your current MXD profile.
- 5a. Measure in OpenColor.
- 5b. or export the template and measure in 3rd party software.
6. Evaluate the measurement results (detailed statistic).
7. Click on the arrow to continue with an additional iteration if desired.

#### Contone: Support of Epson SureColor P7000 Standard and P9000 Standard (LLK)

Epson SureColor P7000 Standard (LLK) and Epson SureColor P9000 Standard (LLK) are now supported in OpenColor. Contone profiles (MXN) can be created for the following media.

| Printer model  | Media  | Print mode                                    |
|--|--|---|
| Epson SureColor P7000 STD (LLK)<br>Epson SureColor P9000 STD (LLK) | GMG ProofPaper semimatte 250<br>GMG ProofPaper semimatte 250 OBA<br>GMG ProofPaper semimatte light<br>GMG ProofPaper Gloss 250 | GMG Driver - 10c - Photo Black - 720x1440 dpi |

## End of Life

Please note, that we will no longer provide bug fixes, maintenance releases, workarounds, or patches for bugs found in GMG OpenColor 2.0.4.21 or older.

## Build number

GMG OpenColor 2.0.5.13

## End of Service Life of GMG OpenColor 1.0

We hereby announce the End of Service Life (EOSL) of GMG OpenColor 1.0. The End of Service Life means that support calls via the service hotline, email or the trouble ticket system will no longer be accepted and all support has been discontinued for the above product and version.

## Tips and Tricks

### Tips for calculation of DotProof profiles

- Check characterization data: have a look at the curve of each color, smoothen if necessary.
- Double-check screening configuration.
- Calculate a contone profile (MXN) first, for test purpose. When this is fine, calculate a DotProof profile (MXD).
- We recommend maximum 2 additional iteration cycles for OpenColor DotProof (MXD).

### Number of ink channels

OpenColor supports a maximum of 8 channels for high quality OpenColor DotProof profiles (MXD). The number of fulcrums decreases when more inks are added. This is why it is better to calculate two high resolution 7 channel profile than one 8 channel profile.

*Tip for profile calculation:* The calculation time of 8 channel profiles can be decreased by reducing the fulcrums for the spot color channels. A high reduction of the fulcrums however has a negative impact on the quality of the simulation.

Here is an example with customized fulcrums:

The screenshot shows the 'Start Profile Calculation' window. At the top, there is a checkbox for 'Automatic Fulcrum Reconfiguration' which is checked, and the text 'Estimated Profile Size: 3.7 MB'. Below this, there are 8 rows representing different ink channels. Each row has a color swatch, a checked checkbox, a name, a description, a list of fulcrum values, and a set of four checkmarks. The fulcrum values for the first four channels (Black, Cyan, Magenta, Yellow) are 0 10 20 40 60 80 100, 0 20 30 40 55 70 100, 0 20 30 40 55 70 100, and 0 20 30 40 55 70 100 respectively. The last four channels (PANTONE Yellow 012 C, PANTONE Yellow 0131 C, PANTONE Red 0331 C, and PANTONE Magenta 0521 C) have fulcrum values of 0 70 100. The checkmarks for the last four channels are arranged in a 2x2 grid, with the bottom-right checkmark being a larger, more prominent checkmark.

| Channel | Name                   | Description        | Fulcrum Values       | Checkmarks |
|---------|------------------------|--------------------|----------------------|------------|
| 1       | Black                  | Contrast Black     | 0 10 20 40 60 80 100 | ✓ ✓ ✓ ✓    |
| 2       | Cyan                   | Separation Cyan    | 0 20 30 40 55 70 100 | ✓ ✓ ✓ ✓    |
| 3       | Magenta                | Separation Magenta | 0 20 30 40 55 70 100 | ✓ ✓ ✓ ✓    |
| 4       | Yellow                 | Separation Yellow  | 0 20 30 40 55 70 100 | ✓ ✓ ✓ ✓    |
| 5       | PANTONE Yellow 012 C   | Spot Color         | 0 70 100             | ✓          |
| 6       | PANTONE Yellow 0131 C  | Spot Color         | 0 70 100             | ✓          |
| 7       | PANTONE Red 0331 C     | Spot Color         | 0 70 100             | ✓          |
| 8       | PANTONE Magenta 0521 C | Spot Color         | 0 70 100             | ✓          |

Questions? Feedback? Comments? Please, let us know!

With kind regards from Tübingen

Jochen Moehrke  
Manager Customer Support